SIEMENS

Product type designation	MDS D160 transponder
	Transponder MDS D160 for RF200/RF300 ISO/MOBY D Heat-resistant up to +175 ° ISO 15693 Chip type, NXP ICODE SLI, 112 byte user memory; 16x 3 mm (DxH); Minimum order quantity 100 units

Wireless frequencies	
Operating frequency / Rated value	13.56 MHz
Range / maximum	180 mm; range is reader dependent: observe http://support.automation.siemens.com/WW/view/en/67384964
Protocol / with radio transmission	ISO 15693
Transfer rate / with radio transmission / maximum	26.5 kbit/s
Product feature / multitag-capable	Yes

Electrical data	
Product component / Backup battery	No

Memory	
Type of memory	EEPROM
Storage capacity / of the user memory	112 byte
Type of memory organization	UID (fixed code) 8 bytes, user memory 112 bytes, configuration memory 8 bytes
Number of read cycles / at ambient temperature < 40 °C / maximum	100000000000000
Number of write cycles / at ambient temperature < 40 °C / maximum	1000000

Data retention time / at ambient temperature < 40 °C / not less than	10 y
Property of memory	Block-by-block write protection of the user memory
Type of transponder chip used	NXP I-Code SLI

Mechanical data

Material	PPS
Color	beige
Mounting distance / relating to metal surfaces / recommended / minimum	10 mm

Permitted ambient conditions

Ambient temperature	
• during read/write access	-25 ... +85 °C
• outside the read/write area	-40 ... +175 °C
• during storage	-25 ... +100 °C
Ambient condition / for operation	Operating temperature permanent up to 100 °C, up to 175 °C min. 100 washing cycles, one time up to 220 °C for 30 s
Protection class IP	IP68 / IPx9K
Shock resistance	According to DIN EN 60721-3-7 Class 7 M3
Shock acceleration	400 m/s²
Vibrational acceleration	100 m/s²

Design, dimensions and weight

Height	3 mm
Diameter	16 mm
Net weight	1.2 g
Mounting type	patch, sewing, gluing

Product properties, functions, components / general

Product feature	
• printable	No

Standards, specifications, approvals

MTBF	228 y

Accessories

accessories	Mounting support and spacer

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb

- to website: CAx Download Manager

- to website: Industry Online Support

http://www.siemens.com/cax

https://support.industry.siemens.com

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